Detailed functional tests for DAS/CCD3 software Transmission of CCD2 events (over Ivy bus)

Date: 15/10 - 2009
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Version: 15/10 - 2009, Initial version.
            16/11 – 2009, Comments by AiC.

Test number	**7**
Test name	**Transmission of CCD3 events (over Ivy bus)**
Test document	**07-test-event-if**
Depends on test	None.
Require-ments	The events messages listed in ref. 9 of the ODF-TEST document (to be defined) shall be transmitted when the corresponding event in the CCD3 programme takes place.
Circum-stances	– The CCD3 system shall be running, connected to a detector controller, controlling a CCD or reading out a dummy test pattern. – The CCD3 programme shall be set up so that it logs (stores or prints out) the time an event happens and the time the associated Ivy message is sent, using the Ivy library calls. – A terminal window shall be opened on the same computer as the one on which the CCD3 programme is running. – A special Ivy test client shall be available that logs (stores or prints out) the received Ivy message together with the time it is received. This test client shall be running in a terminal window on the same computer on which the CCD3 programme is running.
Test descrip-tions	Subtest 7.1 (event message emission): For each event listed in ref. 9 of the ODF-TEST document it shall be tested that the corresponding message bus message is received by the 'ivyprobe' programme. This shall be done by making the CCD3 programme do actions that will trigger these events.
Criterias	The result is acceptable and thus the test is PASSED when – Each of the messages listed in ref. 9 of the ODF-TEST document are received by the 'ivyprobe' programme. – Each of the messages listed in ref. 9 of the ODF-TEST document are sent when the corresponding CCD3 event occurs. – The difference in time between the CCD3 event occurring and the corresponding message being sent on the message bus shall be less than 0,01 seconds (10 ms). This number being measures as the difference

	between the log times from the CCD3 programme and the log times of the Ivy test client. This shall be true for all events/messages listed in ref. 9 of the ODF-TEST document.
Result	❑ Subtest 7.1 PASSED. Tested by _____ on ____ / ____ 20____ Signed _____
Notes	